Begin Working From Bottom and Use Plenty of

Water.

DRY QUICKLY TO PREVENT MACHINE FROM SPOTTING

Advocates of Spray System Say Liquid Acts as Preservative of Varnish and Enamel.

The proper cleaning of a motor car is one of the most important things connected with its ownership, and the longevity of the machine depends to great extent upon the manner in which the cleaning is done.

Dirt is the natural enemy of all ma chinery. It is also the destroyer of fine, polished surfaces. Your car is compesed of both. Keep them clean and you will extend their periods of

There are several kinds of dirt for the motor owner to cope with. The think ought to be paid, new bids have most obvious of these are mud, dust and blackened grease. Owing to the sensible way in which makers of modern motors protect and house the vitals of their products, it is seldom that mud and dust accumulate upon these parts. These two gloomy twins put in their deadliest work on the body and running gear of the car. They devour paint, enamel and varnish. Luckily, however, it is simple to remove them-

How to Remove the Dust.

There are two ways of removing dust and mud. One, the commoner method is to use water. The other, which is newer and probably better, is to spray the dirty surface with a special preparation which softens the accumulations of dirt and is then wiped off with cheesecloth, taking the dirt with

If you use water, be sure to use it plentifully, especially when your car is caked with mud. Any attempt to remove mud before it is thoroughly saturated will damage the finish of your car. Take your hose and start at the bottom, working up. In this way you will clean the running gear—usually the muddlest parts—first, and by working up you will avoid splashing muddy water on an already cleaned body.

ing muddy water on an already cleaned body.

Working with water, you will need a good sponge. Deep water sheep's wool sponges are the best and well worth their somewhat high price. Keep your sponge well saturated with clean water. You can do this by having a hose in your left hand, playing a gentle stream on the sponge all the time. Start sponging from the top downward, working along to the radiator and then going over the mudguards. When all the mud or dust is removed give your car a second quick rinse over with the hose and, if possible, a new sponge.

Dry the Car Quickly.

It is important that you do not allow the water to dry off naturally on the bodywork. If you let this happen your car will soon begin to look like a year a total of \$1,993,501.71 was releopard. As soon as you have finished starting at the highest point, following the path of the sponge, dry up all the moisture on the panels. If your engine is hot when you begin the drying process, start with the hood, to prevent the heat from drying it. Some men prefer cheesecloth rags to chamois for polishing and cleaning. These are good, but must be absolutely clean.

Advocates of the spray system of

of these tubes is attached to an air pump (hand or motor) or a compressed-air tank. The other is placed into a can of kerosene. By turning on the air pressure the nozzle is made to throw a strong jet of kerosene into all those narrow corners and crevices which are usually so hard to reach. There are several types of this blower, most of them costing in the neighborhood of \$2.

Be Sure to Polish the Brass.

Bress and nickel fittings, which are supposed to be decorative, but which are usually far from it by reason of neglect, should be polished regularly with chamois and one of the many preparations now on the market You should remember, in applying these preparations, that they are intended for metal only-and that they are liable to injure varnish and woodwork.

to injure varnish and woodwork.

The upholstery of your car should be brushed daily with a good stiff whiskbroom, and when feasible a vacuum cleaner should be run over it and down into the cushions, which have a way of absorbing quantities of dust. Wipe the leather rain top with a damp cloth, but be sure to dry it thoroughly afterward before folding it down again, for even if the slightest bit of moisture remains on you will find it covered with mildew beard when next you put it up. Cloth tops, of mohair and the many compositions, should be thoroughly brushed and occassionally beaten. The windows, which if not kept clean look worse than old upholstery, should receive your frequent and earnest attention. Remove spots on them with gasolene and beat them from time to time, or treat them to a vacuum cleaning, and they will add to the appearance of your car. Neglect them and they wil detract from it.

Some owners who do their own cleaning have found it convenient to do only

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Miner & Rice Service Dept. 1323 H St. N. W. the conspicuous parts, such as hood, body and the tops of the mudguards, leaving the wheels and invisible parts to be attended to on gala occasions by a regular garage man. If you do this it is well to remember that the rules applying to thorough cleanings also apply to partial ones. Do not allow any water to dry naturally and do not touch the body with greasy rags. Be careful also to dry the springs after each washing. Water left on them will rust the leaves.

CHOPAWAMSIC SWAMP

Contributions of \$250 in Two Weeks Strengthens Hope of Completing Washington's Quota.

William P. Barnhart & Co., the made to provide proper foundations. past two weeks' subscriptions to the hopawamsic swamp road fund reached the hope of the A. A. A. District of material obtained by dredging a ditch

been asked. Through the efforts of the A. A. A. club the only other missing link in the highway has been constructed. This

county, according to a report made public today by Supt. H. A. French of the state motor vehicle, department. This is one machine for every thirteen in-

habitants, In the state there are 189,610 automobiles and 25,937 motor cycles. During the first six months of the present ceived from licenses and fees. There washing take a piece of chamois and, are fifty-eight counties in the state which will receive their pro rata of one-half the proceeds of the automobile fees and licenses, this amount to be used in the maintenance of their high-

is hot when you begin the drying process, start with the hood, to prevent the heat from drying it. Some men prefer cheesecloth rags to chamois for polishing and cleaning. These are good, but must be absolutely clean.

Advocates of the spray system of cleaning motor cars declare that by its use the dangers resulting from a wholesale deluge of water are avoided, and that their liquid preparations act as a preservative of the varnish and enamel, which water does not. The spray method is a great deal more convenient and simple. All you have to do is to spray the car thoroughly and then wipe it with cheesecloth.

For all mechanical parts of the car garage men and chauseurs of the car garage men and chauseurs are now using almost universally a kerosene or gasolene blower, in place of the old, impractical cloth. The blower is simply a nozzle attached to an air pump (hand or motor) or a compressed-air tank. The other is placed into a can

GOOD DRAINAGE OFTEN NEGLECTED IN ROADS

Necessary to Obtain Proper Foundation, Says Minnesota State Engineer.

"Road superintendents sometimes fail o provide the elaborate drainage nec ssary to obtain a proper foundaion, because expensive drainage work reduces the funds available for surfacing," says George W. Cooley, state engineer of Minnesota, in speaking of swamp roads recently. "This applies particularly to the great mileage of main rural roads, on which there is an insistent demand by road users for sur-Headed by a \$25 subscription from facing, with impatience at any delay "In undeveloped swamp country the

most permanent work is obtained by a total of \$250. Thereby is renewed building the roadway embankment of the hope of the A. A. A. District of Columbia club headquarters that the National Capital's quota of \$4,870 will be reached. However, less than half of the sum sought has been received.

Completed, the Washington-Richmond highway will represent an expenditure of nearly \$500,000. Bids for the work is were asked and received two weeks fago. As they did not come within funds available and the sum which experts in the U. S. office of public roads think ought to be paid, new bids have the home the companies of the hope of the road, with an auxiliary road ditch on the other side of the road, with an auxiliary road ditch on the other side of the road, with an auxiliary road ditch on the other side of the prowing the prowing the top of the spread over the roadway, and the dredge then excavates enough firm material to provide a substantial foundation when deposited on the top soil. The ditches are due with practically vertical sides, in order to obtain the largest amount of firm material, usually found at the bottom. The ditches must be of sufficient size to provide the necessary drainage after they have become contracted by the breaking down of the slopes. The low points in the ditches was a companies of the provide he necessary drainage after they have become contracted by the

Dredged Ditches Economical.

ment after a year or two.

"It sometimes appears extravagant to

Why Multiplied Thousands

Choose the Chandler

NOTHING has been added to the price and nothing taken from the car to compensate for the higher production costs of the Chandler Six.

Before the prices asked for other cars were marked up, Chandler was the first choice of thousands of careful buyers. It is not to be wondered at, therefore, that with distinct price advantage added to distinct mechanical superiority, the Chandler is first choice today of

Chandler sales for the year 1916 are setting a new big record for

In the midst of extravagant claims for new and uncertain theories, the Chandler Motor, refined and perfected through three years of development, remains free from any hint of experimentation. And Chandler bodies are the most beautiful of the year.

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Seven-Passenger Touring Car

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work in Wicomico county, working on state aid roads, for approximately two weeks longer.

State truck No. 2 is now treating the roads between East New Market and Cambridge. Upon the completion of this work it will treat the road from Cambridge to Church Creek. In approximately ten days all the remaining roads in Dorchester county should have been treated. State trucks Nos. 1 and 2 will then move to Somerset and Worcester counties.

quent widespread growth of the good roads movement as the pneumatic automobile tire," says J. J. Haas, a local motorist.

"A decade or more ago country roads little, if any, pavement in the country districts at that time) continually traveled over by steel-shod wagons and horses were badly cut up into ruts and holes. And Worcester counties.

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The Star is in receipt of the following bulletin from the Automobile Club of Maryland regarding the progress being made in oiling the roads of Maryland:

State truck No. 1 is now treating the road between Mardella Springs and Salisbury. This truck will continue to do with the beginning and the subsequent Wicomico county, working on quent widespread growth of the good work in Wicomico county, working the roads movement as the presumatic authors and within a few

AUTOMOBILES STARTED GOOD ROADS CRUSADE

Movement Appeared Coincidentally With Appearance of Pneumatic Tired Vehicles.

residents began the improvement of road conditions as a matter of course.

"The threatened extinction of the horse is really not to be regretted, for who will deny that the rubber-tired vehicle is far less harmful to road surfaces than the heavy, horse-drawn, steel-shod wagon?

"Certainly motor trucks would not be possible and touring cars hardly usable were it not for rubber tires. If this seems like a strange statement, imagine a three-ton truck or a seven-passenger car on steel wheels bumping over the

average pavement at a good rate of speed. And think of the poor pavement! Rather the pneumatic-tired vehicle conserves the road surface, and very little repair work is needed to keep any well built highway in excellent condition. "Besides heralding the coming of the good roads movement the pneumatic-tired automobile has drawn the city and country together. It has bridged the gap, the line of demarcation that once separated town from country. To enjoy the advantages of both is the fortunate lot of many a present-day auto owner, lot of many a present-day auto owner, no matter whether he resides in the country or in the city.

Enhanced Values in the Country.



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IF YOUR CAR LACKS POWER ON HILLS or the consumption of gas is increasing, THERE'S SOME-THING WRONG! You Need-

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Leak-Proof Piston Rings

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Gas leakage does not occur with LEAK-PROOF Rings because their bearing on the cylinder walls is so firm and even, their fit in piston head grooves, both sides and bottom, so close and exact as to form a perfect, gas-tight seal. Then, besides affording the necessary compression, their light tension causes less piston drag and friction loss than other rings.

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OUT OF \$56,000,000 JUST **\$250,000 IS SPENT IN FINAL** TESTS TO MAKE DOUBLY SURE YOUR CHALMERS IS RIGHT—DEAD RIGHT

This \$56,000,000 "run" on the 3400 r. p. m. Chalmers has not stampeded the Chalmers factory.

Quite the contrary. The cars are coming out of there so fine, so exact, so thoroughly tested, that all we have to do now when we take them off the freight cars is to pour in oil, gas and water, run them a few miles, and deliver.

There's an excellent reason for this condition. The Chalmers Company has a young army of eagle-eyed inspectors who take great pride in finding a fault in a car when it comes out of the plant.

This costs just \$250,000 a year in cold cash—just one quarter of a million dollars a year to "catch the little things." We firmly believe that most factories would let "go by" nine cars out of

ten that the Chalmers inspectors waylay. It sounds like a lot of money, but when a company maintains the slogan of "Quality First" and bases a \$56,000,000 business on the quality idea, then it becomes quite clear.

We firmly believe that three times \$250,000 is returned to the cash drawer of the Chalmers Company every year through such a policy.

It certainly makes selling a Chalmers car anything but a difficult matter. And that accounts for the "run" on the car. For "run" it surely is.

We are handling from three to five times as many Chalmers cars as this territory ever absorbed before. Last November the Chalmers Dealers bought \$22,000,000 worth of 3400

r. p. m. Chalmers in forty minutes. These Cars were all made and delivered before summer rolled around. Then 10,000 more were added. These were taken up during the

summer months. Now 20,000 more are coming through.

That means that this model will be continued without change in design into next season.

It also means a \$56,000,000 business. Which is twice more than the most optimistic Chalmers executive ever dared dream.

The quality in the car is the answer.

Drive one a mile, and you won't be able to get your monogram painted on the doors quick enough.

C'Walter Hoover Gen. mge Combs Motor Co., 1519 H St. N.W. Washington, D. C. Telephone Main 8761

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